(No Model.)

P. MAUSER.

SHIFTABLE MAGAZINE FOR BOLT GUNS.

No. 492,543. Patented Feb. 28, 1893.

Fig:1.

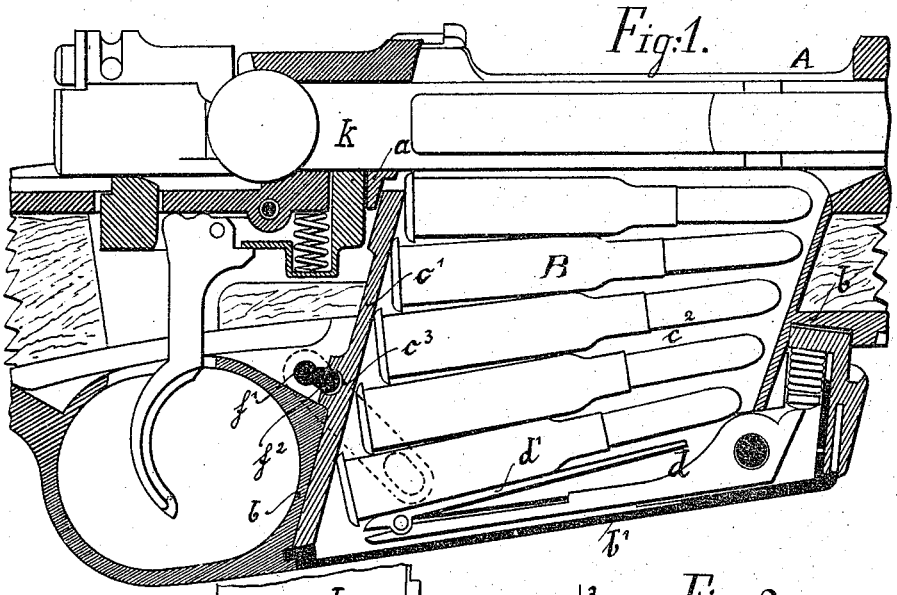


Fig:3.

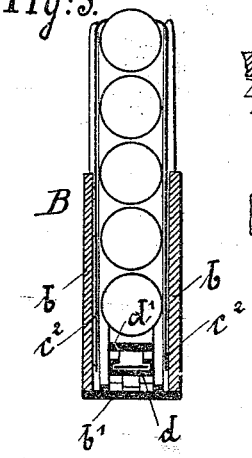


Fig:2.

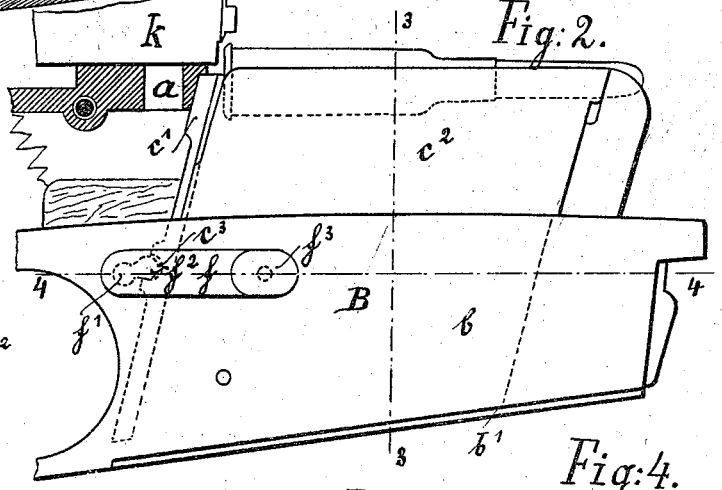


Fig:4.

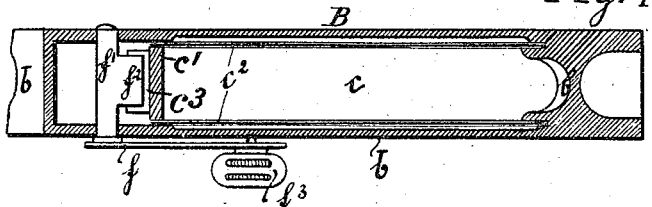
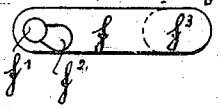


Fig:5.



WITNESSES:

Fred White

C. K. Fraser.

INVENTOR:

Paul Mauser,

By his Attorneys

Arthur C. Fraser & Co.

UNITED STATES PATENT OFFICE.

PAUL MAUSER, OF OBERNDORF, GERMANY, ASSIGNOR TO THE WAFFENFABRIK MAUSER, OF SAME PLACE.

SHIFTABLE MAGAZINE FOR BOLT-GUNS.

SPECIFICATION forming part of Letters Patent No. 492,543, dated February 28, 1893.

Application filed August 20, 1892. Serial No. 443,566. (No model.)

To all whom it may concern:

Be it known that I, PAUL MAUSER, a subject of the German Emperor, and a resident of Oberndorf am Neckar, in the Kingdom of Würtemberg, German Empire, have invented certain new and useful Improvements in Cartridge-Shifters for Bolt-Guns with Magazine Under the Cartridge Rest, of which the following is a specification.

This invention relates to magazine bolt guns, and is designed to provide improvements in such guns to the end that they may be used either as magazine loading guns or as single loaders independently of their magazines.

To this end the invention consists in its preferred form in constructing the magazine to be movable into and out of position relatively to the bolt, whereby when displaced its cartridges will not be withdrawn by the latter, whereupon the gun can be used as a single loader. Preferably the magazine is situated beneath the usual cartridge rest, and is displaced downwardly so that the cartridges contained in it can be brought out of reach of the bolt, thus stopping the feed from the magazine, when the gun can be charged with single cartridges from an ordinary cartridge box and used as a single shooter, while if it is desired to transform the gun into a repeater, or magazine fed gun, the magazine will be replaced, whereupon its cartridges will be within the reach of the bolt.

The invention also consists in certain structural improvements hereinafter set forth.

My invention may be applied to all breech loading guns in which the magazine is situated beneath the cartridge rest, but I will describe it as applied to the so-called "Mauser gun," in which the opening of the lock case beneath the cartridge rest is milled out into a box or receptacle made in one piece with the trigger guard and containing a cartridge lifter of well known construction.

In the accompanying drawings, which illustrate my invention as applied to the said Mauser gun, Figure 1 is a fragmentary vertical longitudinal section of the lock portion of a gun. Fig. 2 is a side elevation of the magazine, a fragment of the breech case and bolt being shown. Fig. 3 is a vertical cross-section thereof on the line 3—3 in Fig. 2. Fig. 4 is a horizontal section thereof on the line 4—4 in Fig. 2, and Fig. 5 is an elevation of the inner side of the shifting lever detached.

Referring to the drawings, let *a* indicate the breech case of a gun which may be of any known construction, *k* the bolt thereof, of any usual construction, *b* the trigger guard thereof, A the portion of the breech case termed the cartridge rest, B the magazine beneath the cartridge rest, and *f* the shifting lever therefor.

I will now describe the preferred form of my invention as applied to the Mauser gun illustrated in the drawings.

The magazine B consists of a prismatic or oblong box or cavity milled out of the material of the trigger guard *b*, and extending downwardly obliquely to the axis of the barrel underneath the bolt *k* and opposite the cartridge rest A. This box is closed at the under side in any suitable way, as by a lid *b'*, and contains a cartridge lifter *d d'* of usual construction, actuated by a suitable spring as heretofore. Preferably this box is fixed relatively to the gun and constitutes an outer casing for the magazine, and an inner lining, *c* is mounted movably within the box, constituting part of the magazine. The cartridges are not placed directly in the box, but are placed in the lining *c*. Preferably this lining consists of a solid back *c'* and two side sheets c^2 fastened to this back. The sheets c^2 have their top edges bent slightly inward in such manner that they retain the cartridges within the lining. The cartridges are pressed into the magazine from above against the resistance of the cartridge lifter, as heretofore. Preferably the lining *c* is adapted to be shifted up and down for a short distance, the back *c'* thereof being guided partly by the opening in the breech case *a* and partly by the side walls of the box formed in the trigger guard *b*, at back, and at front the side sheets c^2 are guided in grooves formed in the front wall of the said box, as seen in Fig. 4.

Any suitable means for shifting the magazine relatively to the bolt may be utilized,

but I prefer to effect this by means of the shifting lever *f*, which is preferably provided on the right hand side of the trigger guard *b*. This lever has a shaft *f'* traversing and supported by the trigger guard, and constructed with a projection f^2 resembling a key-bit which catches into a suitable indentation c^3 in the back plate *c'* of the lining. By this provision when the lever is shifted it carries the lining of the magazine with it, and thus the latter can be moved into and out of position relatively to the bolt. If the lever is provided with a thumb piece f^3 as shown, and constructed to be arrested and retained in its extreme position, the lining and the cartridges contained therein can be kept back from the path of the bolt when the lever is shifted to the downward position shown in Fig. 1, and then the gun can be used as a single loader as the bolt will pass over the magazine without acting on its contents, and when the gun is to be used as a repeater the lining and its contents can be kept in position for the action of the bolt by shifting the lever to the upper position shown in Fig. 2. Preferably the lever is caught in its respective positions by being constructed with a projection on its inner face engaging recesses arranged in the side wall of the trigger guard at its two extreme positions, as shown in Figs. 2 and 4.

The magazine may be charged by pushing in cartridges from the top either singly by hand, or by means of the well known "Mauser cartridge holder," by which five cartridges may be inserted at one time.

It will be seen that my invention provides an improvement in breech-loading magazine bolt guns which can be variously availed of without departing from its essential features, and it will be understood that I do not limit myself to the particular adaptation thereof set forth and shown as the preferred form of my invention.

What I claim is the following-defined novel features and combinations, substantially as hereinbefore set forth, namely:

1. In a breech-loading magazine gun, the bolt, in combination with a magazine adjacent thereto for delivering cartridges under the action of the bolt, this magazine constructed with a lid *b'* closing its lower end, and a lining *c* constructed to retain the cartridges within the magazine above said lid, said lining being movable independently of said magazine and its lid while the latter is closed into and out of position relatively to said bolt, whereby when said lining is in one position the cartridges can be engaged by said bolt and when said lining is displaced it will withdraw the cartridges from the action of said bolt, whereupon the gun can then be used as a single loader, and means for moving said magazine.

2. In a breech-loading magazine gun, the bolt and breech case, and a magazine carried by said case, constructed with a stationary casing, in combination with a lining inclosed in said casing, constructed to embrace and carry the cartridges, movable toward and from said bolt within and independently of said casing while the magazine is closed, and constructed when in one position to present the top cartridge to the action of the bolt and when displaced to remove it from such action, substantially as and for the purpose set forth.

3. In a breech-loading magazine gun, the bolt and the breech case constructed with a cartridge rest, in combination with a magazine box situated beneath the cartridge rest and consisting of a lining *c* constructed to contain the cartridges, and having a lining back, as *c'*, and a shifting lever, as *f*, constructed to engage with said lining back and when shifted to move the lining up and down, whereby the cartridges contained in the latter can be raised or lowered to bring the uppermost cartridge into or out of reach of the bolt, substantially as and for the purpose set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing witnesses.

PAUL MAUSER.

Witnesses:

CHAPMAN COLEMAN,

CARL T. BURRHARDT.